Ali Hussain

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Work Experience

BuildZoom | Software Engineer
January 2017 - April 2017 | San Francisco, CA

- Used Python and R to research, develop, and build statistical models
- Implemented and shipped several projects with Ruby on Rails and MySQL
- Built multiple data related projects to help improve company operations
  - Model to confidently approve and reject user reviews
  - Method to estimate contractors' budgets using permit data
  - Rebuilt the contractor building permit aggregation system

Kik Interactive | Web Developer - Bots Team
May 2016 - August 2016 | Waterloo, ON

- Shipped 12,000+ lines of Python and AngularJS on Google AppEngine
- Updated and maintained our public Python and NodeJS bot APIs
- Introduced statistical methods into the development of multiple projects
  - Algorithm to quantify the popularity of individual bots
  - Alert and monitoring system to track bots' health statuses

Kik Interactive | Release & QA
September 2015 - December 2015 | Waterloo, ON

- Led testing efforts for multiple new features
- Designed and executed black box testing plans for unreleased features
- Collaborated with project leads and developers throughout testing

Recent Projects

Review Classification | BuildZoom
March 2017 - April 2017

Researched and developed a statistical model to approve and reject reviews on our website. Used Latent Dirichlet Allocation and Discriminant Analysis to build a model to effectively cut down the number of reviews requiring manual approval by 70% with a 90% accuracy rate.

Baseball Predictions | Personal Project
March 2017 - *Present*

Working on a project to predict the real-time standings of a baseball game based on its Reddit Game Threads' comment history. Using time series analysis and topic modeling, I'm attempting to match a game's Vegas odds with trends in its respective comment thread.

Bot Health Check System | Kik Interactive
August 2016

Created and implemented a system to track the health status' of bots on Kik. When requested, a script would run to collect relevant info about a specific bot and uses hypothesis testing to compare it against the current platforms' expected values. A frontend dashboard was created to present this information, along with recent history, for the internal teams.

Education

University of Waterloo
Double BMath | Expected 2018

Computational Math & Statistics
Minor in Computer Science

Links

LinkedIn:// ahussain5
GitHub:// alihussain5

Technical Skills

Intermediate

- Python
- R
- Ruby on Rails
- C/C++
- HTML/CSS
- Racket/Lisp

Novice

- JavaScript
- AngularJS
- NodeJS
- MySQL
- Postgres

Miscellaneous

- RESTful Protocols
- Data Structures & Algorithms
- Statistics & Probability
- Web Development
- S3 S3, Redshift
- Bash
- Git

Hobbies & Interests

- Baseball
- Fitness and Nutrition
- Programming
- IT and Networking
- Puzzles and Problem Solving
- Video Games